TID/TAB - 18/66 3 March 1966

MEMORAN	DUM FOR THE RECORD
SUBJECT	: Trip Report
1.	On 14 February 1966 accompanied and review the
	of the contract for the analytical plotting instrumend to as the AP-3.
analyti the exi however design	The AP-3 contract called for the development of an cal plotting instrument which is basically the same a sting ASIIA plotting instrument. The AP-3 contract, incorporates some modifications to the basic ASIIA in order to increase the flexibility and versatility 3. These modifications are as follows:
	a. Increase of optical magnification of 100X.
ре	b. Optical subsystem capable of resolving 100 lin r millimeter.
su	c. Anamorphic corrections included in the optical baystem.
	d. Optical zoom subsystem.
	e. Modification of coordinatograph mechanical dri stem to include Beaver Ball Screws instead of the isting lead screws.
status were in Chief E problem subsyst	When we arrived and started discussing the of the AP-3 we found that some aspects of the optics the research and development stage. Ingineer was having design a incorporating the anamorphic optics into the optica em. He did, however, develop an optical system that resolve the required 100 lines per millimeter. This

Choil? Should in the control of the

size was requested in the main lens cone. This will give a 25 micron dot size on the photo plate instead of having a

25X

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25X

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	constant dot size in the main lens that would vary in size on the photo plate with the three different magnification ranges.	
	4. The proposal for the ballscrews was received at OMI on 15 February. This proposal was for three classes of screws:	
	Class 7 = 25 micron accuracy	
	Class 5 = 50 micron accuracy	·.
	Class 3 = 125 micron accuracy	
	We discussed this proposal and decided that a class 5, 50 micron accuracy over full length of the screw, would be sufficient for the AP-3 coordinatorgraph. A selection of a one inch pitch was also made for the screws. The Beaver proposal stated that 18 weeks should be allowed for construction of the screws. This should not delay delivery of the instrument, since the coordinatorgraph could be delivered with conventional lead screws. After delivery, the coordinatorgraph could then be retrofit inhouse with the ball screws.	
•	tentative delivery date for the AP-3. stated that he felt he would be in much better position to give a delivery date on the AP-3 after he visits the ASP Meeting in Washington, D.C. in March. The construction and delivery of the instrument is solely dependent upon two factors. The first would be	

Production Section Technical Analysis Branch

Distribution:

Orig. - Chief, TID/TAB 1 - Asst. P&D/Attn.

1 - TAB/PS/

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